

# Curriculum Vitae

Jae N. Lee

## 1. Contact:

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## 2. Gender: Female

## 3. Education:

- **2003.9-2008.6:** Ph. D Student and Research Assistant. School of Marine and Atmospheric Science, Stony Brook University.

**Thesis Topic:** Changes in Atmospheric Circulation between  
Solar Maximum and Minimum Conditions in Winter and

Summer

**Thesis Advisor:** Prof. Sultan Hameed.

**PhD thesis defense date:** 2008.3

- **1993.9-1994.1:** Part Time Student, University of Washington, Seattle, USA,  
in atmospheric science.

- **1986.1-1988.1:** Master Degree in Atmospheric Science,  
Stony Brook University.

**Thesis Topic:** Line by line calculation of  $H_2O$  absorption spectra near  
infrared.

**Thesis Advisor:** Prof. Robert D. Cess

- **1980.3-1984.2:** BS in Physics, Yonsei University, Seoul, Korea.

## 4. Experience:

- **2003.9-2008.6:** Research Assistant  
School of Marine and Atmospheric Science, Stony Brook University  
**Job description:** Research on the Northern Annular Mode and its relation  
to solar forcing in the reanalysis and the GCM model.
- **1994.9-1995.9:** Part time Public employee  
Korean Meteorological Administration, Long term forecast department.

- Job description:** Mesoscale forecast modeling

  - **1991.9-1992.12:** Full time Public employee, Atmospheric Scientist. Korean Meteorological Administration.  
**Job description:** Development of background  $CO_2$  monitoring system
- **1988.9-1990.2:** Research Scientist  
Science System & Applications, Inc.,  
Lanham, MD.  
**Job description:** Baseline Upper Air Network (BUAN) and TOVS data processing at Satellite Research Lab. (SRL) /NOAA.
- **1988.1-1988.9:** Research associate  
Atmospheric Science group, Stony Brook University.  
**Job description:** Research assistant for Prof. R.D. Cess in ERBE project
- **1986.1-1988.1:** Research assistant.  
Atmospheric Science group, Stony Brook University.  
**Job description:** Master degree work

## 5. Skills:

- Good computer and communication skills gained from graduate studies and previous work experience
- Ability to access and analyze the GCM model outputs
- global climate trend related research
- Extensive experience in statistical analysis.

## 6. Journal Publications:

- **Jae N. Lee**, Dong L. Wu, Gloria Manney, and Michael Schwartz, “Aura Microwave Limb Sounder observations of the Northern Annular Mode in the Mesosphere through the Upper Troposphere, *Geophys. Res. Lett*, in review.
- Gloria L. Manney, Michael J. Schwartz, Kirstin Krüger, Michelle L. Santee, Steven Pawson, **Jae N. Lee**, William H. Daffer, Ryan A. Fuller and Nathaniel Livesey, ” Aura Microwave Limb Sounder Observations of Dynamics and Transport During the Record-breaking 2009 Arctic Stratospheric Major Warming, *Geophys. Res. Lett*, in review
- **Jae N. Lee**, D. T. Shindell, and S. Hameed, “The role of solar forcing in the tropical circulation”, *J. Climate*, in review
- **Jae N. Lee**, S. Hameed, and D. T. Shindell, “The northern annular mode in summer and its relation to solar activity variations in the GISS ModelE”, *Journal of Atmospheric and Solar-Terrestrial Physics* (2007), 70/5,

730-741, doi:10.1016/j.jastp.2007.10.012.

- **Jae N. Lee** and S. Hameed, “The Northern Hemisphere Annular Mode in summer, its Physical Significance and its Relation to Solar Activity Variations”, *J. Geophys. Res.*, **112**, (D15111) (2007).
- S. Hameed and **Jae N. Lee**, “A mechanism for sun climate connection”, *Geophys. Res. Lett.* **32** (L23817), (2005).

## 7. Conference contributions

- Displacements of the Aleutian Low and the Hawaiian High pressure systems during the solar cycle. *Eos Transactions*, AGU, Fall Meeting v. **84**, Abstract SH11E-03. December 8-12, 2003, San Francisco, CA. (presented by Prof. Hameed).
- The Centers of Action and Sun-Climate interaction, SORCE meeting, October 27-29, 2004, Meridith, NH. (presented by Prof. Hameed).
- The Northern Annular modes: a mechanism for sun climate connection, AMS middle atmosphere conference, June 8-10, 2005, Boston, MA. (presented by Prof. Hameed).
- The Northern Annular modes and it's relation to solar cycle in the GISS ModelE, CAWSES symposium, Oct.21-28, 2007, Kyoto, Japan.
- The role of solar forcing in the tropical circulation, Feb. 4-7, SORCE 2008 meeting, Santa Fe, New Mexico

## 8. References:

- Prof. Sultan Hameed, School of Marine and Atmospheric Science,  
Stony Brook University  
  
Tel: 631-632-8319. E-mail: [shameed@notes.cc.sunysb.edu](mailto:shameed@notes.cc.sunysb.edu)
- Prof. Marvin A. Geller, School of Marine and Atmospheric Science,  
Stony Brook University  
  
Tel: 631-632-8386. E-mail: [mgeller@notes.cc.sunysb.edu](mailto:mgeller@notes.cc.sunysb.edu)
- Prof. Minghua Zhang, School of Marine and Atmospheric Science,  
ITPA director, Stony Brook University  
  
Tel: 631-632-8318. E-mail: [mzhang@notes.cc.sunysb.edu](mailto:mzhang@notes.cc.sunysb.edu)

- Dr. Drew T. Shindell, NASA Goddard Institute for space Studies and  
Columbia University,

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